

### ABSTRACT

A pressure transducer which has a closed chamber which is full of oil or other non-compressible liquid. Pressure communicates with a diaphragm which defines one side of the closed chamber and the pressure communicates via the oil with a pressure sensor which is mounted within the oil spaced from the diaphragm. The liquid entered the closed chamber through a inlet hole with a selected volume driven into the closed chamber by a ball which is forcefully driven a selected distance into the inlet hole before stopping at the end of the inlet hole against a physical stop.